



Mathematics Worksheet

Name:	Date:	Grade : 7th
Each section includes carefully and answer.	5 questions based on your study guid	de topics. Read each questior
1-1 Relate Integers an	d Their Opposites	
1. What is the opposite	e of –9?	
Ans:		
2. On a number line, w	hat is the distance between –4 and 4	.?
Ans:		
3. Write two integers t	hat are opposites of each other.	
Ans:		
4. If the temperature of	Irops from 5°C to –3°C, what is the ch	ange in temperature?
Ans:		
5. Explain how absolut	e value helps you find the distance be	etween two numbers on a
number line.		
A no.		



Ans:

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1-2 Understand Rational Numbers		
1. Write $\frac{3}{4}$ as a decimal.		
Ans:		
2. Is -2.6 a rational number? Explain why or why not.		
Ans:		
7		
3. Convert $\frac{7}{12}$ to a decimal. Is it terminating or repeating?		
Ans:		
4. Write a fraction that represents the repeating decimal 0.333		
Ans:		

5. Give one example of an irrational number, and explain why it isn't.



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1-3 Add Integers

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1. Find the sum: −5 + 8.
Ans:
2. Find the sum: –9 + (–6).
Ans:
3. A submarine is 300 meters below sea level. It rises 175 meters. What is its new position? [Hint: below sea level, distance will be negative. Eg: 500 meters below sea level is -500 meters.]
Ans:
4. Use a number line to model 4 + (-7).
Ans:
5. Explain how adding integers is similar to moving right or left on a number line.
Ans:



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1-4 Subtract Integers
1. Find the result of $6 - (-4)$.
Ans:
2. Find the result of $-3-5$.
Ans:
3. Explain why subtracting a negative number is the same as adding its opposite.
Ans:
4. A hiker climbs from –20 m to +10 m. What is the total change in elevation?
Ans:
5. Find the result of $-8 - (-3)$
Ans:



1-5 Add and Subtract Rational Numbers

1. Find $\frac{3}{4}$ + ($-\frac{1}{2}$). Write your answer in simplest form.

Ans:

2. Find the result of -2.5 + 1.75.

Ans:

3. Subtract: $-\frac{3}{8} - \frac{5}{8}$

Ans:

4. On a number line, show what happens when you add -0.6 + 1.2.

Ans:

5. A scuba diver descends 7.5 meters and then rises 3.2 meters. What is the diver's final depth?

Ans:



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1-6 Multiply Integers
1. Multiply –4 × 6.
Ans:
2. Multiply $-7 \times (-3)$.
Ans:
3. Explain the sign rule when multiplying positive and negative integers.
Ans:
4. If a plane descends 250 meters per minute for 4 minutes, how far does it descend?
Ans:
5. Find the result of: $(-8) \times 5 \times (-2)$.
Ans:



1-7 Multiply Rational Numbers

1. Multiply $\frac{3}{4} \times -\frac{2}{3}$

Ans:

2. Find the result of -1.5×0.4 .

Ans:

3. A company's profit is -\$2.50 per item. If it sells 12 items, what is the total profit or loss?

Ans:

4. Multiply $-\frac{5}{6} \times -\frac{3}{2}$ and simplify your answer.

Ans:

5. Explain how the product of two negative rational numbers can be positive.

Ans: